

ANALYST:		VPDES NO.	
----------	--	-----------	--

Instrument: _____

Parameter: Total Residual Chlorine (TRC)

Method: Chlorine Electrode

1/08

METHOD OF ANALYSIS:

	Orion Research Instruction Manual
--	-----------------------------------

	Y	N
1) Is the electrode an Orion Model 97-70? [Mfr.]		
2) Is distilled water prepared from an alkaline potassium permanganate solution? [Mfr.]		
3) Is electrode slope measured correctly? [Mfr.]		
4) Is slope between 26 and 30 mV per 10 mg/L? [Mfr.]		
5) Is 1 ppm standardizing solution prepared fresh daily? [Mfr.]		
6) Is the 1 mL residual chlorine standard, 1 mL iodide reagent, and 1 mL acid reagent mixed thoroughly and allowed to stand for 2 minutes before dilution to volume? [Mfr.]		
7) Is 99 mL distilled water added and mixed thoroughly? [Mfr.]		
8) Is meter calibrated to 1 ppm reading (0.00 mV) with the standardizing solution for each test? [Mfr.]		
9) Is the 100 mL of sample, 1 mL of iodide reagent, and 1 mL of acid reagent allowed to stand for at least two minutes prior to measurement? [Mfr.]		
10) Is electrode blotted dry between calibration and measurement? [Mfr.]		
11) Are the standard and samples left un-stirred during measurement? [Mfr.]		
12) Is a standard curve developed using a reagent blank and three standard solutions containing 0.2, 1.0, 5.0 mL 0.00281 N potassium iodate/100 mL solution, respectively? [40 CFR Part 136.3, Table IB footnote 16]		
13) If measuring below 0.2 ppm, was a blank used for correcting measurement? [Mfr.]		
14) Is sample value read correctly? [Mfr.]		
15) Are samples analyzed within 15 minutes of collection? [40 CFR Part 136]		

PROBLEMS: